Drinking Water Surveillance Program

DRYDEN WATER TREATMENT PLANT

Annual Report 1989

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DRYDEN
WATER TREATMENT PLANT

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

DRYDEN WATER TREATMENT PLANT
1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, there were 65 plants being monitored.

The Dryden Water Treatment Plant is a conventional treatment plant which treats water from Lake Wabigoon. The treatment process consists of coagulation, flocculation, clarification, filtration, disinfection, fluoridation and corrosion control. This plant has a design capacity of 13.64 x 1000 m^3/day and serves a population of approximately 6,500.

Water samples of the raw and treated water from the plant and from one distribution system site were taken monthly and sampled for approximately 180 parameters. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons, Specific Pesticides and Volatiles). Chlorophenols and Specific Pesticides were analyzed for in June and November only. Phenols and PAHs are only analyzed in the water from the plant.

A summary of results is shown in Table A.

Inorganic and Physical parameters were below any applicable health related ODWOs.

Of a total of approximately 110 Organic parameters tested monthly basis, none exceeded health related guidelines.

During 1989 the DWSP sampling results indicated that the Dryden Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP

SUMMARY TABLE BY SCAN

SCAN	RAW TESTS	RAW POSITIVE	RAW %POSITIVE	TREATED TESTS	TREATED POSITIVE	TREATED %POSITIVE	SITE 1 TESTS	SITE 1 POSITIVE	SITE 1 %POSITIVE
BACTERIOLOGICAL	4	0	0	8	0	0	16	0	0
CHEMISTRY (FLD)	35	35	100	71	71	100	117	116	99
CHEMISTRY (LAB)	240	195	81	240	173	72	350	270	77
METALS	288	135	46	288	91	31	470	194	41
CHLOROAROMATICS	154	0	0	154	0	0	126	0	0
CHLOROPHENOLS	12	0	0	12	0	0	.	.	.
PAH	189	0	0	174	0	0	.	.	.
PESTICIDES & PCB	387	0	0	387	0	0	254	0	0
PHENOLICS	11	11	100	10	8	80	.	.	.
SPECIFIC PESTICIDES	64	0	0	64	0	0	9	0	0
VOLATILES	348	0	0	348	36	10	261	27	10
TOTAL	1732	376		1756	379		1603	607	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM

DRYDEN WATER TREATMENT PLANT
1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, there were 65 plants being monitored.

The DWSP was initiated at the Dryden Water Treatment Plant in October 1988. An Annual report was published with the 1988 results (ISSN 0843-8293).

This report contains information and results for 1989.

PLANT DESCRIPTION

The Dryden Water Treatment Plant is a conventional treatment plant which treats water from Lake Wabigoon. The process consists of coagulation, flocculation, clarification, filtration, disinfection, fluoridation and corrosion control. A polyelectrolyte is added as a coagulant aid. This plant has a design capacity of 13.6 x 1000

m^3/day and sample day flows ranging from 4.5 x 1000 m^3/day to 5.2 x 1000 m^3/day. It serves a population of 6,500.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

SAMPLE LOCATIONS

Water samples were obtained from three DWSP approved locations;

i) Plant Raw - The water originated from the raw water influent prior to chemical addition and was sampled through a stainless steel sample line. The sample tap is located near the lowlift discharge.

ii) Plant Treated - The water originated from the highlift discharge after addition of all treatment chemicals and was sampled through a stainless steel sample line. The location of the sample tap is unavailable.

iii) Distribution System - Site 1 - This house is approximately 1.4 kilometres from the plant. Water was sampled through a copper sample line at the basement laundry tap.

SAMPLING AND ANALYSES

Sample lines in the plant were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At the distribution system location two types of samples were obtained: a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples are used to make an assessment of the amount by which the levels of inorganic compounds and metals may be changed on standing due to leaching from (or deposition on) the plumbing system. The only analyses carried out on the standing samples therefore, are General Chemistry and Metals. The free flow sample represented fresh water from the distribution main that had been flowing at the sample tap for five minutes before being sampled.

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration. The retention time was calculated by dividing the volume of water between the two sampling points by the sample day flow. For example, if it was determined that the retention time within the plant was five hours then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to

travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner.

Plant operating personnel perform analyses on parameters for process control (Table 1).

The Dryden Water Treatment Plant and one location in the distribution system were sampled for approximately 180 parameters on a monthly basis beginning in October 1988. The Specific Pesticides and Chlorophenols scans were sampled in June and November only. Polyaromatic Hydrocarbons and Phenolics were only analyzed in the raw and treated water at the plant. As of August the triazine pesticides were only analyzed in the raw and treated water. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP data base as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

DRYDEN WATER TREATMENT PLANT

FIGURE 2

DRYDEN WATER TREATMENT PLANT

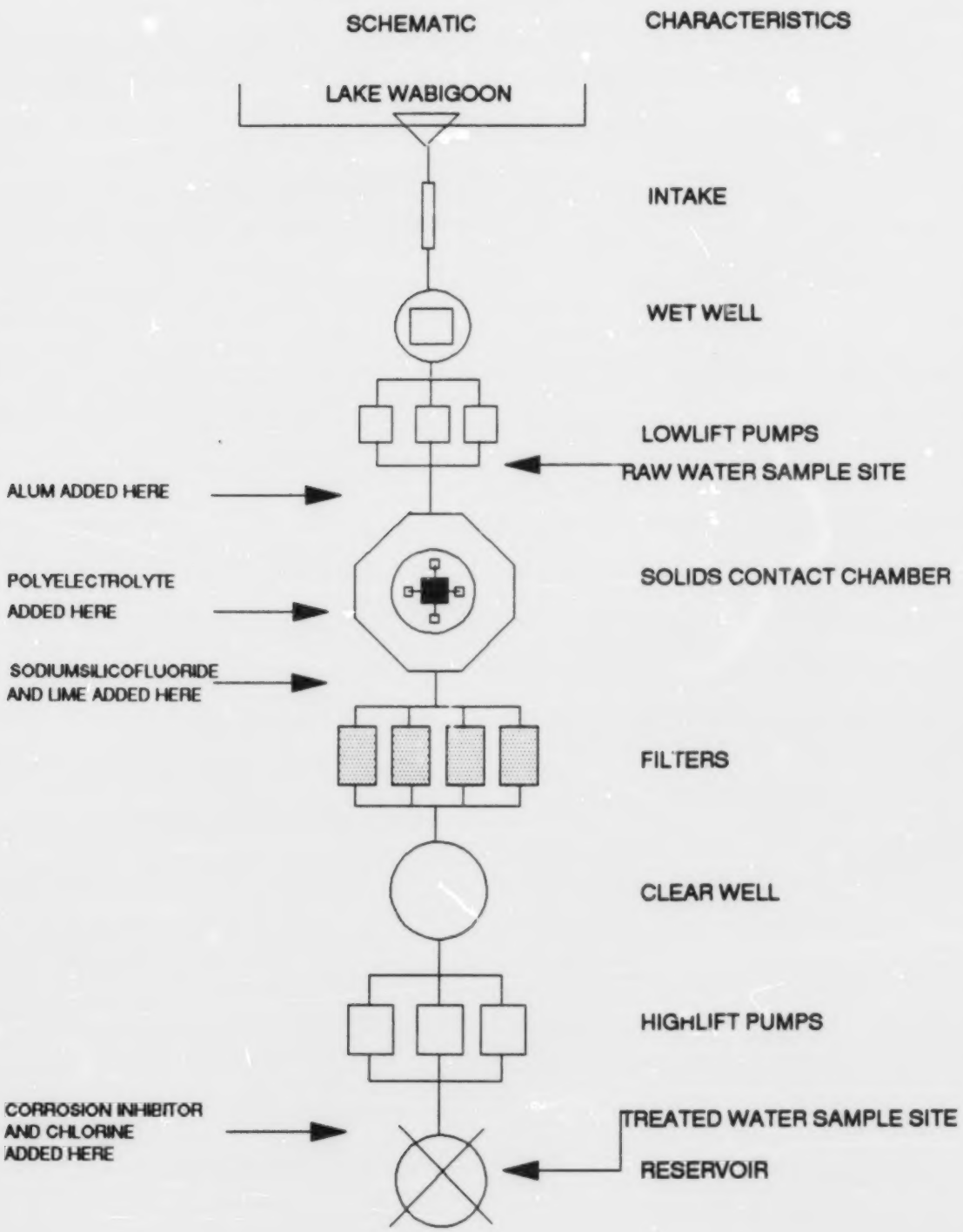

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

PLANT MONITORING DRYDEN WATER TREATMENT PLANT

PARAMETER	LOCATION	FREQUENCY
Alkalinity	Treated tap	weekly
Chlorine residual - free	Highlift discharge	daily
total	Highlift discharge	continuous
Fluoride	Treated tap	weekly
Hardness	Treated tap	weekly
pH	Raw water tap	daily
	Treated water tap	daily
Temperature	Raw water tap	daily
	Treated water tap	daily
Turbidity	Raw water influent	continuous
	Raw water tap	daily
	Treated water tap	daily

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

DRYDEN WATER TREATMENT PLANT

LOCATION:	WILDE STREET DRYDEN, ONTARIO (807-223-3566)
SOURCE:	RAW WATER SOURCE - LAKE WABIGOON
DESIGN CAPACITY:	13.6 (1000 M^3/DAY)
OPERATION:	MUNICIPAL
TOWN ENGINEER:	M. FISHER
MINISTRY REGION:	NORTHWEST
DISTRICT OFFICER:	P. FOX

MUNICIPALITY SERVED	POPULATION
DRYDEN	6,500

rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed for by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on both tables. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, these are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS) recently published (ISBN 0-7729-4461-X) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

Plant operational personnel address occurrences of taste and odour or biological water quality parameters. The DWSP does not assess these aspects of the water supply.

As stated under Results, traces do not indicate quantifiable values, as defined by established MOE Laboratory analytical reporting protocols. The occasional finding of a trace level of a contaminant is thus not considered to be significant. They can be useful in trend analysis, or confirmation of the presence of a specific contaminant that is repeatedly detected at these levels. **DISCUSSION OF GUIDELINES AND LIMITS THEREFORE, IS ONLY CONDUCTED ON POSITIVE RESULTS.**

Bacteriology

Bacteriological analyses were only carried out four times in 1989, all other samples were not received at the laboratory within the allotted time for analysis. No positive results for the Bacteriology scan were present. Routine Bacteriological monitoring as recommended in the ODWOs is carried out by the operating authority.

Inorganic and Physical Parameters

Laboratory and Field Chemistry

The results for Laboratory and Field Chemistry scans were below any applicable health related ODWOs.

The Total Ammonium levels are high in the April Site 1 water samples. While the European Economic Community has an aesthetic guideline of .05 mg/L, the Maximum Admissible Concentration is .50 mg/L and is set as a result of the concern for potential sewage pollution and its detection.

The Langelier Index is used extensively in estimating the corrosion potential of water. An increasingly negative index indicates the increasing possibility of corrosion. It is considered sound engineering practice to maintain a slightly positive Langelier

Index. The Langelier Index for Dryden is consistently negative.

As part of the treatment process, sodium silicofluoride is added to the treated water (Table 3). Where fluoridation is practised, the Fluoride concentration recommended in the ODWO is 1.2 mg/L, plus or minus 0.2 mg/L. Results indicate that this level was not maintained on three occasions although the dosage applied appears to be adequate.

It is desirable that the Temperature of drinking water be less than 15°C; the palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water. The desired ODWO was exceeded five times in the treated water and free flow distributed water.

Metals

The results reported for the Metal scan were below any applicable ODWOs.

The levels of Iron and Manganese are lower in the treated water as compared to the raw water. This is a result of the treatment process, the addition of alum as a coagulant to the raw water and

the resulting coagulation/settling process has been shown to reduce the levels of most metals.

Levels of Copper, Nickel, Lead and Zinc were slightly higher in the standing samples as compared to the free flow distribution samples, indicating that these metals were leached from the household plumbing as the water stood overnight. Although the Langelier Index indicates that corrosion would not be unexpected, the minimal increases in lead and copper on standing indicates that the corrosion control processes are working.

At present, there is no evidence that Aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of residual Aluminum in the treated water is important to indicate efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 0.1 mg/L as Al in the water leaving the plant. Aluminum values exceeded the ODWO operational guideline three times in the treated water.

Organic Parameters

Chloroaromatics

The results of the Chloroaromatics scan showed that no chloroaromatics were detected.

Chlorophenols

The results of the Chlorophenol ^{C}scan showed that no Chlorophenols were detected.

Pesticides and PCB

Results of the Pesticides and PCB scan showed that no PCBs were detected and that one pesticide was detected:

Alpha BHC

There are several isomers of BHC (benzene hexachloride); gamma BHC is the active ingredient of the pesticide Lindane, while alpha BHC is the isomer most predominantly found in surface waters of the Great Lakes basin as indicated by results from other water supplies on DWSP.

Alpha BHC was detected at trace levels, in three raw water samples, four treated water samples and three Site 1 water samples.

Specific Pesticides

The results of the Specific Pesticide scan showed that none were detected.

Phenolics

Phenolics were detected in the raw water, ranging from 1.0 to 6.6 µg/L and in the treated water, ranging from 1.2 to 14.2 µg/L. The maximum desirable concentration of phenolic substances in drinking water is 2.0 µg/L. This limit has been set primarily to prevent the

occurrence of undesirable tastes and odours, particularly in chlorinated water. Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes.

Polynuclear Aromatic Hydrocarbons (PAH)

The results of the PAH scan showed that no PAHs were detected.

Volatiles

The results of the Volatile scan showed that six parameters, other than Trihalomethanes(THMs) were detected:

Toluene

Ethylbenzene

Ortho-Xylene

Styrene

1,1,1-Trichloroethane

Tetrachloroethylene

The detection of benzene, ethylbenzene, toluene and the xylenes at low, trace levels is a laboratory artifact derived from the analytical methodology.

The detected trace levels of Styrene are also considered to be laboratory artifacts resulting from the polystyrene shipping containers. The sporadic background levels from this source are in the order of 0.05 µg/L.

1,1,1-Trichloroethane was detected at trace levels, four times in the raw water, once in the treated water and once in the Site 1 water.

Tetrachloroethylene was detected at trace levels, twice in the treated water and once in the Site 1 water.

THMs are known to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs.

Chloroform, Dichlorobromomethane and Total THMs were detected in all treated waters. Chlorodibromomethane was detected at trace levels, six times and Bromoform was not detected. All Total THM occurrences, ranging from 46.7 µg/L to 85.8 µg/L were well below the ODWO of 350 µg/L.

CONCLUSIONS

The Dryden Water Treatment Plant for the sampling period of 1989 produced good quality water at the plant and this was maintained in the distribution system.

No health related guidelines, for organic or inorganic parameters,

were exceeded during 1989.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP SAMPLE DAY CONDITIONS FOR 1989

	SAMPLE DAY CONDITIONS		TREATMENT CHEMICAL DOSAGES (MG/L)					
			COAGULATION	COAGULATION AID	POST PH ADJUSTMEN	FLUORIDATION	CORROSION CONTROL	POST-CHLORINATION
			ALUM LIQUID	POLYELECTROLYTE	CALCIUM HYDROXIDE	SODIUM FLUORIDE	ZINC SULPHATEPHOSPHATE	CHLORINE
DATE	RETENTION TIME(HRS)	FLOW (1000M3)						
JAN 24	42.0	4.6	60.00	.25	16.17	1.64	2.85	1.45
FEB 28	.5	.	60.00	.25	24.26	1.64	.	1.45
MAR 29	.	5.1	68.00	.25	18.19	1.82	.	1.45
APR 25	.5	4.6	65.00	.34	18.19	1.64	.	1.45
MAY 24	.3	.	67.00	.30	20.21	1.64	.	2.22
JUN 26	.	.	67	.17	19.57	1.64	.	1.45
JUL 24	.2	.	63.00	.25	16.17	1.64	2.85	1.45
AUG 29	1.4	5.2	69.00	1.90	18.22	2.16	2.85	1.35
SEP 26	.5	4.5	69.00	1.90	16.20	2.16	2.85	1.84
OCT 24	.	4.7	75.00	3.04	1.62	1.80	2.85	1.54
NOV 28	.	.	73.00	.	17.55	1.80	.	.
DEC 12	13.7	4.6	73.00	.26	18.19	1.80	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	2	0	0	.	.	.	.	.	.
	FECAL COLIFORM	.	.	.	2	0	0	4	0	0
	STANDRD PLATE CNT MF	.	.	.	2	0	0	4	0	0
	COLIFORM	.	.	.	2	0	0	4	0	0
	TOTAL COLIFORM MF	2	0	0	2	0	0	4	0	0
*TOTAL SCAN BACTERIOLOGICAL		4	0	0	8	0	0	16	0	0
*TOTAL GROUP BACTERIOLOGICAL		4	0	0	8	0	0	16	0	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	12	12	0	17	16	0
	FLD CHLORINE FREE	.	.	.	12	12	0	20	20	0
	FLD CHLORINE (TOTAL)	.	.	.	12	12	0	20	20	0
	FLD PH	12	12	0	12	12	0	20	20	0
	FLD TEMPERATURE	12	12	0	12	12	0	20	20	0
	FLD TURBIDITY	11	11	0	11	11	0	20	20	0
*TOTAL SCAN CHEMISTRY (FLD)		35	35	0	71	71	0	117	116	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0	20	20	0
	CALCIUM	12	12	0	12	12	0	20	20	0
	CYANIDE	12	0	0	12	0	0	10	0	0
	CHLORIDE	12	12	0	12	12	0	20	20	0
	COLOUR	12	12	0	12	5	7	20	5	15

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SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
CHEMISTRY ('AB)	CONDUCTIVITY	12	12	0	12	12	0	20	20	0
	FLUORIDE	12	3	9	12	12	0	20	20	0
	HARDNESS	12	12	0	12	12	0	20	20	0
	IONCAL	12	12	0	12	12	0	20	20	0
	LANGELIERS INDEX	0	0	0	0	0	0	0	0	0
	MAGNESIUM	12	12	0	12	12	0	20	20	0
	SODIUM	12	12	0	12	12	0	20	20	0
	AMMONIUM TOTAL	12	8	1	12	0	7	20	3	9
	NITRITE	12	9	3	12	2	8	20	2	15
	TOTAL NITRATES	12	4	5	12	2	6	20	3	13
	NITROGEN TOT KJELD	12	12	0	12	12	0	20	20	0
	PH	12	12	0	12	12	0	20	20	0
	PHOSPHORUS FIL REACT	12	8	3	12	4	1	.	.	.
	PHOSPHORUS TOTAL	12	10	2	12	5	6	.	.	.
	SULPHATE	12	9	3	12	12	0	20	20	0
	TURBIDITY	12	12	0	12	11	1	20	17	3
*TOTAL SCAN CHEMISTRY (LAB)		240	195	26	240	173	36	350	270	55
METALS	SILVER	12	0	1	12	0	0	20	0	2
	ALUMINUM	12	12	0	12	12	0	20	20	0
	ARSENIC	12	2	10	12	0	12	20	0	20
	BARIUM	12	12	0	12	12	0	20	20	0
	BORON	12	4	8	12	2	10	20	8	12

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
METALS	BERYLLIUM	12	0	10	12	0	7	20	0	13
	CADMIUM	12	0	1	12	0	6	20	0	8
	COBALT	12	0	12	12	0	12	20	0	18
	CHROMIUM	12	9	2	12	6	2	20	15	4
	COPPER	12	11	1	12	1	11	20	19	1
	IRON	12	12	0	12	0	11	20	0	8
	MERCURY	12	0	3	12	0	4	10	1	6
	MANGANESE	12	12	0	12	12	0	20	20	0
	MOLYBDENUM	12	0	12	12	0	12	20	0	20
	NICKEL	12	0	10	12	0	2	20	2	11
	LEAD	12	8	4	12	3	6	20	12	7
	ANTIMONY	12	11	1	12	11	1	20	19	1
	SELENIUM	12	0	5	12	0	3	20	0	6
	STRONTIUM	12	12	0	12	12	0	20	20	0
	TITANIUM	12	12	0	12	10	2	20	18	2
	THALLIUM	12	0	2	12	0	1	20	0	9
	URANIUM	12	0	11	12	0	8	20	0	13
	VANADIUM	12	9	3	12	0	12	20	0	20
	ZINC	12	9	2	12	10	2	20	20	0
*TOTAL SCAN METALS		288	135	98	288	91	124	470	194	181
*TOTAL GROUP INORGANIC & PHYSICAL		563	365	124	599	335	160	937	580	236
CHLOROAROMATICS	HEXACHLOROBUTADIENE	11	0	0	11	0	0	9	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
CHLOROAROMATICS	123 TRICHLOROBENZENE	11	0	0	11	0	0	9	0	0
	1234 T-CHLOROBENZENE	11	0	0	11	0	0	9	0	0
	1235 T-CHLOROBENZENE	11	0	0	11	0	0	9	0	0
	124 TRICHLOROBENZENE	11	0	0	11	0	0	9	0	0
	1245 T-CHLOROBENZENE	11	0	0	11	0	0	9	0	0
	135 TRICHLOROBENZENE	11	0	0	11	0	0	9	0	0
	HCB	11	0	0	11	0	0	9	0	0
	HEXACHLOROETHANE	11	0	0	11	0	0	9	0	0
	OCTACHLOROSTYRENE	11	0	0	11	0	0	9	0	0
	PENTACHLOROBENZENE	11	0	0	11	0	0	9	0	0
	236 TRICHLOROTOLUENE	11	0	0	11	0	0	9	0	0
	245 TRICHLOROTOLUENE	11	0	0	11	0	0	9	0	0
	26A TRICHLOROTOLUENE	11	0	0	11	0	0	9	0	0
*TOTAL SCAN CHLOROAROMATICS		154	0	0	154	0	0	126	0	0
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.
	2345 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.
	2356 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.
	245-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.
	246-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.
	PENTACHLOROPHENOL	2	0	0	2	0	0	.	.	.
*TOTAL SCAN CHLOROPHENOLS		12	0	0	12	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PAH	PHENANTHRENE	12	0	0	11	0	0	.	.	.
	ANTHRACENE	12	0	0	11	0	0	.	.	.
	FLUORANTHENE	12	0	0	11	0	0	.	.	.
	PYRENE	12	0	0	11	0	0	.	.	.
	BENZO(A)ANTHRACENE	12	0	0	11	0	0	.	.	.
	CHRYSENE	12	0	0	11	0	0	.	.	.
	DIMETH. BENZ(A)ANTHR	5	0	0	5	0	0	.	.	.
	BENZO(E) PYRENE	12	0	0	11	0	0	.	.	.
	BENZO(B) FLUORANTHEN	12	0	0	11	0	0	.	.	.
	PERYLENE	12	0	0	11	0	0	.	.	.
	BENZO(K) FLUORANTHEN	12	0	0	11	0	0	.	.	.
	BENZO(A) PYRENE	4	0	0	4	0	0	.	.	.
	BENZO(G,H,I) PERYLEN	12	0	0	11	0	0	.	.	.
	DIBENZO(A,H) ANTHRAC	12	0	0	11	0	0	.	.	.
	INDENO(1,2,3-C,D) PY	12	0	0	11	0	0	.	.	.
	BENZO(B) CHRYSENE	12	0	0	11	0	0	.	.	.
	CORONENE	12	0	0	11	0	0	.	.	.
*TOTAL SCAN PAH		189	0	0	174	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	11	0	0	11	0	0	9	0	0
	ALPHA BHC	11	0	3	11	0	4	9	0	3
	BETA BHC	11	0	0	11	0	0	9	0	0
	LINDANE	11	0	0	11	0	0	9	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PESTICIDES & PCB	ALPHA CHLORDANE	11	0	0	11	0	0	9	0	0
	GAMMA CHLORDANE	11	0	0	11	0	0	9	0	0
	DIELDRIN	11	0	0	11	0	0	9	0	0
	METHOXYCHLOR	11	0	0	11	0	0	9	0	0
	ENDOSULFAN I	11	0	0	11	0	0	9	0	0
	ENDOSULFAN II	11	0	0	11	0	0	9	0	0
	ENDRIN	11	0	0	11	0	0	9	0	0
	ENDOSULFAN SULPHATE	11	0	0	11	0	0	9	0	0
	HEPTACHLOR EPOXIDE	11	0	0	11	0	0	9	0	0
	HEPTACHLOR	11	0	0	11	0	0	9	0	0
	MIREX	11	0	0	11	0	0	9	0	0
	OXYCHLORDANE	11	0	0	11	0	0	9	0	0
	OPDDT	11	0	0	11	0	0	9	0	0
	PCB	11	0	0	11	0	0	9	0	0
	DDD	11	0	0	11	0	0	9	0	0
	PPDDE	11	0	0	11	0	0	9	0	0
	PPDDT	11	0	0	11	0	0	9	0	0
	AMETRINE	12	0	0	12	0	0	5	0	0
	ATRAZINE	12	0	0	12	0	0	5	0	0
	ATRATONE	12	0	0	12	0	0	5	0	0
	CYANAZINE (BLADEX)	12	0	0	12	0	0	5	0	0
	D-ETHYL ATRAZINE	12	0	0	12	0	0	5	0	0
	D-ETHYL SIMAZINE	12	0	0	12	0	0	5	0	0
	PROMETONE	12	0	0	12	0	0	5	0	0
	PROPAZINE	12	0	0	12	0	0	5	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PESTICIDES & PCB	PROMETRYNE	12	0	0	12	0	0	5	0	0
	METRIBUZIN (SENCOR)	12	0	0	12	0	0	5	0	0
	SIMAZINE	12	0	0	12	0	0	5	0	0
	ALACHLOR (LASSO)	12	0	0	12	0	0	5	0	0
	METOLACHLOR	12	0	0	12	0	0	5	0	0
*TOTAL SCAN PESTICIDES & PCB		387	0	3	387	0	4	254	0	3
PHENOLICS	PHENOLICS	11	11	0	10	8	2	.	.	.
*TOTAL SCAN PHENOLICS		11	11	0	10	8	2	0	0	0
SPECIFIC PESTICIDES	TOXAPHENE	11	0	0	11	0	0	9	0	0
	2,4,5-T	2	0	0	2	0	0	.	.	.
	2,4-D	2	0	0	2	0	0	.	.	.
	2,4-DB	2	0	0	2	0	0	.	.	.
	2,4 D PROPIONIC ACID	2	0	0	2	0	0	.	.	.
	DICAMBA	2	0	0	2	0	0	.	.	.
	PICHLORAM	0	0	0	0	0	0	.	.	.
	SILVEX	2	0	0	2	0	0	.	.	.
	DIAZINON	2	0	0	2	0	0	.	.	.
	DICHLOROVOS	2	0	0	2	0	0	.	.	.
	CHLORPYRIFOS	2	0	0	2	0	0	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
SPECIFIC PESTICIDES	ETHION	2	0	0	2	0	0	.	.	.
	AZINPHOS-METHYL	0	0	0	0	0	0	.	.	.
	MALATHION	2	0	0	2	0	0	.	.	.
	MEVINPHOS	2	0	0	2	0	0	.	.	.
	METHYL PARATHION	2	0	0	2	0	0	.	.	.
	METHYLTRITHION	2	0	0	2	0	0	.	.	.
	PARATHION	2	0	0	2	0	0	.	.	.
	PHORATE	2	0	0	2	0	0	.	.	.
	RELDAN	2	0	0	2	0	0	.	.	.
	RONNEL	2	0	0	2	0	0	.	.	.
	AMINOCARB	0	0	0	0	0	0	.	.	.
	BENOMYL	1	0	0	1	0	0	.	.	.
	BUX	0	0	0	0	0	0	.	.	.
	CARBOFURAN	2	0	0	2	0	0	.	.	.
	CICP	2	0	0	2	0	0	.	.	.
	DIALLATE	2	0	0	2	0	0	.	.	.
	EPTAM	2	0	0	2	0	0	.	.	.
	IPC	2	0	0	2	0	0	.	.	.
	PROPOXUR	2	0	0	2	0	0	.	.	.
	CARBARYL	2	0	0	2	0	0	.	.	.
	BUTYLATE	2	0	0	2	0	0	.	.	.
*TOTAL SCAN SPECIFIC PESTICIDES		64	0	0	64	0	0	9	0	0
VOLATILES	BENZENE	12	0	0	12	0	0	9	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
VOLATILES	TOLUENE	12	0	3	12	0	5	9	0	4
	ETHYLBENZENE	12	0	2	12	0	4	9	0	2
	P-XYLENE	12	0	0	12	0	0	9	0	0
	M-XYLENE	12	0	0	12	0	0	9	0	0
	O-XYLENE	12	0	0	12	0	1	9	0	1
	STYRENE	12	0	4	12	0	11	9	0	4
	1,1 DICHLOROETHYLENE	12	0	0	12	0	0	9	0	0
	METHYLENE CHLORIDE	12	0	0	12	0	0	9	0	0
	T1,2DICHLOROETHYLENE	12	0	0	12	0	0	9	0	0
	1,1 DICHLOROETHANE	12	0	0	12	0	0	9	0	0
	CHLOROFORM	12	0	5	12	12	0	9	9	0
	111, TRICHLOROETHANE	12	0	4	12	0	1	9	0	1
	1,2 DICHLOROETHANE	12	0	0	12	0	0	9	0	0
	CARBON TETRACHLORIDE	12	0	0	12	0	0	9	0	0
	1,2 DICHLOROPROPANE	12	0	0	12	0	0	9	0	0
	TRICHLOROETHYLENE	12	0	0	12	0	0	9	0	0
	DICHLOROBROMOMETHANE	12	0	1	12	12	0	9	9	0
	112 TRICHLOROETHANE	12	0	0	12	0	0	9	0	0
	CHLORODIBROMOMETHANE	12	0	0	12	0	5	9	0	1
	T-CHLOROETHYLENE	12	0	0	12	0	2	9	0	1
	BROMOFORM	12	0	0	12	0	0	9	0	0
	1122 T-CHLOROETHANE	12	0	0	12	0	0	9	0	0
	CHLOROBENZENE	12	0	0	12	0	0	9	0	0
	1,4 DICHLOROBENZENE	12	0	0	12	0	0	9	0	0
	1,3 DICHLOROBENZENE	12	0	0	12	0	0	9	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
VOLATILES	1,2 DICHLOROBENZENE	12	0	0	12	0	0	9	0	0
	ETHLYENE DIBROMIDE	12	0	0	12	0	0	9	0	0
	TOTL TRIHALOMETHANES	12	0	0	12	12	0	9	9	0
*TOTAL SCAN VOLATILES		348	0	19	348	36	29	261	27	14
*TOTAL GROUP ORGANIC		1165	11	22	1149	44	35	650	27	17
TOTAL		1732	376	146	1756	379	195	1603	607	253

KEY TO TABLE 5 and 6

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
1+. MAC for Total Trihalomethanes
1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 ^{0}C within 48 hours

2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, a total)

C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria
5. Maximum Contaminant Level Goal (MCLG)

F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IP	No Data: Insufficient Preservative
!IS	No Data: Insufficient Sample

!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
!PH	No Data: Sample pH Outside Valid Range
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
BACTERIOLOGICAL					
FECAL COLIFORM ( )			DET'N LIMIT = N/A		GUIDELINE = 0 (A1)
FEB	.	0	.	0	
MAR	.	0	.	0	
APR	.	.	.	0	
MAY	.	.	.	0	
STANDRD PLATE CNT MF ( )			DET'N LIMIT = 0		GUIDELINE = 500/ML (A1)
FEB	.	0	.	0	
MAR	.	0	.	0	
APR	.	.	.	0	
MAY	.	.	.	0	
COLIFORM ( )			DET'N LIMIT = N/A		GUIDELINE = 0 (A1)
FEB	.	0	.	0	
MAR	.	0	.	0	
APR	.	.	.	0	
MAY	.	.	.	0	
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML(A1)
FEB	BDL	0	.	0	
MAR	BDL	0	.	0	
APR	.	.	.	0	
MAY	.	.	.	0	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
CHEMISTRY (FLD)					
FLD CHLORINE (COMB) ( )			DET'N LIMIT = N/A		GUIDELINE = N/A
JAN	.	.200	.	.100	
FEB	.	.200	.	.200	
MAR	.	.100	.150	.100	
APR	.	.200	.100	.	
MAY	.	.100	.100	.100	
JUN	.	.150	.	.	
JUL	.	.300	.	.	
AUG	.	.100	.200	.200	
SEP	.	.100	.200	.000	
OCT	.	.100	.100	.100	
NOV	.	.400	.100	.300	
DEC	.	.300	.100	.200	
FLD CHLORINE FREE ( )			DET'N LIMIT = N/A		GUIDELINE = N/A
JAN	.	.800	.100	1.000	
FEB	.	1.000	.100	.800	
MAR	.	.900	.100	.900	
APR	.	.900	.200	1.100	
MAY	.	1.000	.100	1.000	
JUN	.	.950	.	.	
JUL	.	1.000	.	.	
AUG	.	1.000	.300	1.100	
SEP	.	1.100	.500	1.500	
OCT	.	1.000	.500	1.000	
NOV	.	.700	.100	.600	
DEC	.	.900	.100	.700	
FLD CHLORINE (TOTAL) ( )			DET'N LIMIT = N/A		GUIDELINE = N/A
JAN	.	1.000	.100	1.100	
FEB	.	1.200	.100	1.000	
MAR	.	1.000	.250	1.000	
APR	.	1.100	.300	1.100	
MAY	.	1.100	.200	1.100	
JUN	.	1.100	.	.	
JUL	.	1.300	.	.	
AUG	.	1.100	.500	1.300	
SEP	.	1.200	.700	1.500	
OCT	.	1.100	.600	1.100	
NOV	.	1.100	.200	.900	
DEC	.	1.200	.200	.900	
FLD PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)
JAN	7.450	7.200	7.300	7.300	
FEB	7.300	7.600	7.400	7.600	
MAR	7.300	7.400	7.300	7.300	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
APR	7.300	7.350	7.300	7.300	
MAY	7.300	7.500	7.400	7.400	
JUN	7.600	7.400	.	.	
JUL	7.700	7.300	.	.	
AUG	7.500	7.300	7.400	7.300	
SEP	7.600	7.450	7.400	7.350	
OCT	7.500	7.200	7.300	7.300	
NOV	7.300	7.400	7.400	7.500	
DEC	7.800	7.200	7.300	7.300	
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A1)
JAN	1.500	1.200	12.000	2.500	
FEB	1.000	1.500	14.000	3.000	
MAR	1.000	1.500	14.000	3.200	
APR	2.500	3.000	13.500	3.000	
MAY	9.000	8.500	14.000	8.000	
JUN	19.000	19.000	.	.	
JUL	22.000	22.000	.	.	
AUG	20.000	20.000	18.000	18.000	
SEP	14.000	15.000	18.000	15.500	
OCT	8.000	8.000	15.000	11.000	
NOV	20.000	2.000	21.000	4.000	
DEC	2.000	2.000	15.000	3.500	
FLD TURBIDITY (FTU)			DET'N LIMIT = N/A		GUIDELINE = 1.0 (A1)
JAN	4.800	.150	.480	.360	
FEB	4.400	.250	.380	.340	
MAR	4.200	.150	.180	.150	
APR	4.400	.150	.140	.120	
MAY	4.750	.130	.220	.120	
JUN	7.000	.140	.	.	
JUL	8.400	.650	.	.	
AUG	14.000	.140	.120	.120	
SEP	15.000	.130	.180	.140	
OCT	14.000	.110	.160	.120	
NOV	.	.	.170	.140	
DEC	13.000	.230	.290	.270	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
CHEMISTRY (LAB)					
ALKALINITY (MG/L)			DET'N LIMIT = .200		GUIDELINE = 30-500 (A4)
JAN	56.000	47.200	47.900	46.700	
FEB	55.800	55.400	55.100	56.000	
MAR	53.500	48.400	49.300	48.400	
APR	52.700	46.800	47.300	46.700	
MAY	45.700	43.200	44.300	43.900	
JUN	46.600	41.400	.	.	
JUL	49.000	42.400	.	.	
AUG	47.100	40.300	40.900	39.900	
SEP	47.900	41.000	41.500	40.900	
OCT	48.900	40.200	40.500	40.300	
NOV	51.100	44.400	45.000	44.200	
DEC	51.300	41.900	42.700	42.900	
CALCIUM (MG/L)			DET'N LIMIT = .100		GUIDELINE = 100 (F2)
JAN	17.600	25.800	25.800	25.800	
FEB	17.600	30.600	30.800	30.800	
MAR	19.200	30.000	30.000	30.400	
APR	16.200	28.600	27.800	28.000	
MAY	14.400	25.800	26.800	27.400	
JUN	16.200	27.800	.	.	
JUL	15.800	25.800	.	.	
AUG	16.000	26.600	26.400	27.000	
SEP	17.000	27.400	27.800	27.200	
OCT	16.000	26.000	26.600	25.800	
NOV	16.600	27.900	31.400	31.800	
DEC	17.000	26.800	27.200	27.200	
CHLORIDE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 250 (A3)
JAN	1.600	2.800	2.700	3.000	
FEB	1.600	2.900	2.800	3.000	
MAR	1.800	3.100	3.000	3.100	
APR	2.100	3.300	3.300	3.400	
MAY	2.100	3.500	3.400	3.600	
JUN	2.100	3.400	.	.	
JUL	2.000	3.800	.	.	
AUG	1.900	3.500	3.700	3.800	
SEP	3.060	4.430	4.550	4.590	
OCT	2.100	3.300	3.500	3.400	
NOV	2.100	3.100	2.700	2.700	
DEC	2.100	3.200	3.200	3.100	
COLOUR (HZU)			DET'N LIMIT = .5		GUIDELINE = 5.0 (A3)
JAN	13.000	1.500 <T	1.500 <T	1.000 <T	
FEB	14.000	2.000 <T	2.000 <T	2.000 <T	
MAR	15.000	2.500	2.500	2.000 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
APR	17.000	2.000 <T	2.000 <T	1.500 <T	
MAY	27.000	3.000	3.500	2.500	
JUN	23.500	2.500	.	.	
JUL	28.000	2.500	.	.	
AUG	22.500	1.000 <T	1.500 <T	1.000 <T	
SEP	21.500	2.500	2.500	1.500 <T	
OCT	22.500	1.500 <T	1.500 <T	1.500 <T	
NOV	24.000	1.000 <T	2.000 <T	1.500 <T	
DEC	23.000	2.000 <T	2.500	2.000 <T	
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)
JAN	120	179	180	178	
FEB	120	199	201	199	
MAR	118	187	188	187	
APR	119	191	192	192	
MAY	102	172	173	173	
JUN	105	174	.	.	
JUL	102	173	.	.	
AUG	104	175	176	176	
SEP	105	175	176	176	
OCT	106	176	177	176	
NOV	112	185	188	186	
DEC	113	182	184	183	
FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)
JAN	.060	.940	1.020	.920	
FEB	.040 <T	1.100	1.220	1.080	
MAR	.020 <T	1.000	.980	.960	
APR	.040 <T	1.000	1.020	.960	
MAY	.040 <T	.900	.920	.900	
JUN	.040 <T	.760	.	.	
JUL	.040 <T	1.100	.	.	
AUG	.040 <T	1.240	1.220	1.220	
SEP	.040 <T	1.220	1.180	1.200	
OCT	.080	1.020	1.100	1.060	
NOV	.040 <T	1.200	1.160	1.100	
DEC	.040	1.100	1.140	1.080	
HARDNESS (MG/L)			DET'N LIMIT = .500		GUIDELINE = 80-100 (A4)
JAN	57.000	78.000	77.000	78.000	
FEB	56.000	90.000	90.000	89.000	
MAR	61.000	88.000	88.000	89.000	
APR	55.000	86.000	84.000	85.000	
MAY	47.000	76.000	79.000	80.000	
JUN	52.000	81.000	.	.	
JUL	52.000	77.000	.	.	
AUG	51.000	78.000	78.000	79.000	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
SEP	55.000	81.000	83.000	80.000	
OCT	53.000	78.000	79.000	77.000	
NOV	54.000	82.000	91.700	92.800	
DEC	55.000	80.000	80.000	80.000	
IONCAL (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A
JAN	.466	1.419	.420	2.381	
FEB	5.126	5.709	7.114	5.760	
MAR	9.369	4.691	5.109	8.480	
APR	2.728	6.427	8.454	8.942	
MAY	1.236	.511	3.325	5.708	
JUN	7.205	7.143	.	.	
JUL	1.706	2.779	.	.	
AUG	4.350	4.677	4.322	7.179	
SEP	7.941	9.834	10.800	9.118	
OCT	5.067	4.255	4.917	3.709	
NOV	3.347	.864	10.250	13.460	
DEC	2.788	2.856	2.036	3.063	
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A
JAN	-.463	-.406	-.550	-.580	
FEB	-.344	-.160	-.171	-.133	
MAR	-.564	-.393	-.485	-.417	
APR	-.485	-.340	-.328	-.330	
MAY	-.840	-.562	-.495	-.529	
JUN	-.802	-.529	.	.	
JUL	-.569	-.490	.	.	
AUG	-.602	-.640	-.577	-.588	
SEP	-.679	-.710	-.688	-.744	
OCT	-.587	-.681	-.639	-.664	
NOV	-.424	-.331	-.365	-.377	
DEC	-.433	-.393	-.379	-.336	
MAGNESIUM (MG/L)			DET'N LIMIT = .050		GUIDELINE = 30 (F2)
JAN	3.200	3.200	3.100	3.200	
FEB	3.100	3.200	3.200	3.000	
MAR	3.100	3.200	3.100	3.100	
APR	3.600	3.600	3.600	3.600	
MAY	2.800	2.800	2.800	2.800	
JUN	3.000	2.900	.	.	
JUL	3.000	3.100	.	.	
AUG	2.500	2.800	2.900	2.800	
SEP	3.100	3.100	3.200	3.000	
OCT	3.100	3.100	3.100	3.000	
NOV	3.080	3.040	3.200	3.250	
DEC	3.000	3.100	2.900	3.000	

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
SODIUM (MG/L)			DET'N LIMIT = .200		GUIDELINE = 200 (C3)
JAN	2.000	3.000	3.000	3.200	
FEB	2.400	3.000	3.200	3.000	
MAR	2.200	3.000	3.200	3.200	
APR	2.200	2.600	2.600	2.600	
MAY	2.200	2.400	2.600	2.600	
JUN	2.000	2.200	.	.	
JUL	1.600	2.200	.	.	
AUG	2.200	3.000	3.200	3.400	
SEP	2.200	3.200	3.200	3.400	
OCT	2.000	3.200	3.000	3.400	
NOV	2.450	2.790	2.100	2.500	
DEC	2.400	2.800	3.000	3.000	
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)
JAN	.014	.006 <T	.002 <T	.006 <T	
FEB	BDL	.002 <T	.006 <T	.002 <T	
MAR	.004 <T	.002 <T	BDL	.004 <T	
APR	BDL	BDL	1.000	1.000	
MAY	.022	.002 <T	BDL	.016	
JUN	.024	.002 <T	.	.	
JUL	.014	BDL	.	.	
AUG	.034	.006 <T	.002 <T	.006 <T	
SEP	.022	.002 <T	.002 <T	.002 <T	
OCT	.030	BDL	BDL	BDL	
NOV	.012	BDL	BDL	BDL	
DEC	BDL	BDL	BDL	BDL	
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)
JAN	.006	.001 <T	.001 <T	.001 <T	
FEB	.006	.001 <T	.002 <T	BDL	
MAR	.003 <T	.001 <T	.002 <T	.001 <T	
APR	.002 <T	.001 <T	.001 <T	.001 <T	
MAY	.008	.005	.004 <T	.005	
JUN	.031	.003 <T	.	.	
JUL	.002 <T	BDL	.	.	
AUG	.010	.006	.006	.004 <T	
SEP	.005	.001 <T	.001 <T	.001 <T	
OCT	.015	BDL	BDL	.001 <T	
NOV	.008	.001 <T	.001 <T	BDL	
DEC	.015	.001 <T	.001 <T	.001 <T	
TOTAL NITRATES (MG/L)			DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)
JAN	BDL	.020 <T	.020 <T	BDL	
FEB	.005 <T	BDL	BDL	BDL	
MAR	.020 <T	.020 <T	.005 <T	.015 <T	
APR	.045	.050	.045	.045	

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
MAY	.020 <T	.010 <T	.005 <T	.010 <T	
JUN	.035	BDL	.	.	
JUL	BDL	BDL	.	.	
AUG	.035	.020 <T	.020 <T	.020 <T	
SEP	BDL	.005 <T	.010 <T	.010 <T	
OCT	.015 <T	BDL	BDL	.005 <T	
NOV	.015 <T	.020 <T	.005 <T	.015 <T	
DEC	.025	.025	.025	.020 <T	
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = .020		GUIDELINE = N/A
JAN	.320	.170	.210	.170	
FEB	.280	.130	.180	.150	
MAR	.340	.200	.230	.200	
APR	.400	.300	.260	.220	
MAY	.460	.170	.340	.170	
JUN	.400	.180	.	.	
JUL	.420	.170	.	.	
AUG	.470	.190	.220	.190	
SEP	.490	.240	.190	.180	
OCT	.400	.160	.180	.150	
NOV	.420	.180	.320	.160	
DEC	.450	.280	.240	.280	
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)
JAN	7.910	7.900	7.750	7.730	
FEB	8.030	8.010	8.000	8.030	
MAR	7.790	7.840	7.740	7.810	
APR	7.950	7.930	7.950	7.950	
MAY	7.700	7.780	7.820	7.780	
JUN	7.680	7.800	.	.	
JUL	7.900	7.860	.	.	
AUG	7.880	7.720	7.780	7.770	
SEP	7.770	7.630	7.640	7.600	
OCT	7.880	7.690	7.720	7.710	
NOV	8.010	7.970	7.880	7.870	
DEC	7.990	7.950	7.950	7.990	
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = .0005		GUIDELINE = N/A
JAN	.002 <T	.010	.	.	
FEB	.002	BDL	.	.	
MAR	.001 <T	BDL	.	.	
APR	BDL	BDL	.	.	
MAY	.001 <T	BDL	.	.	
JUN	.003	BDL	.	.	
JUL	.007	.001 <T	.	.	
AUG	.017	.013	.	.	
SEP	.012	.019	.	.	

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
OCT	.015	.011	.	.	
NOV	.011	BDL	.	.	
DEC	.012	BDL	.	.	
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = .002		GUIDELINE = .40 (F2)
JAN	.011	.002	.	.	
FEB	.009 <T	.002 <T	.	.	
MAR	.009 <T	.005 <T	.	.	
APR	.014	.007 <T	.	.	
MAY	.023	.003 <T	.	.	
JUN	.016	BDL	.	.	
JUL	.020	.208	.	.	
AUG	.039	.330	.	.	
SEP	.044	.435	.	.	
OCT	.031	.400	.	.	
NOV	.026	.007 <T	.	.	
DEC	.037	.003 <T	.	.	
SULPHATE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 500. (A3)
JAN	2.830	30.440	30.300	30.390	
FEB	.760 <T	30.130	30.260	29.080	
MAR	3.610	36.000	35.000	33.900	
APR	2.500	33.280	32.660	33.170	
MAY	2.840	31.260	30.960	30.710	
JUN	3.540	32.810	.	.	
JUL	2.450 <T	30.680	.	.	
AUG	2.800	33.970	33.690	33.810	
SEP	3.280	31.650	31.540	31.600	
OCT	2.370 <T	34.860	34.780	34.580	
NOV	3.280	37.060	36.810	36.930	
DEC	3.840	35.370	35.820	35.350	
TURBIDITY (FTU)			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)
JAN	5.100	.570	1.500 RRV	.600	
FEB	4.400	.290	.880	.220 <T	
MAR	4.500	.640	.490	.950	
APR	4.600	.730	.320	.200 <T	
MAY	4.400	.410	.360	.260	
JUN	7.800	.910	.	.	
JUL	7.500	.500	.	.	
AUG	14.800	.360	.380	.310	
SEP	16.600	.410	.550	.380	
OCT	15.800	.370	.450	.300	
NOV	15.100	.290	1.510 RRV	.530	
DEC	16.000	.150 <T	.290	.230 <T	

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
METALS				
SILVER (UG/L)				DET'N LIMIT = .020 GUIDELINE = 50. (A1)
JAN	BDL	BDL	BDL	.030 <T
FEB	BDL	BDL	.040 <T	BDL
MAR	BDL	BDL	BDL	BDL
APR	BDL	BDL	BDL	BDL
MAY	BDL	BDL	BDL	BDL
JUN	BDL	BDL	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	BDL	BDL
SEP	BDL	BDL	BDL	BDL
OCT	.030 <T	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL
ALUMINUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = 100.(A4)
JAN	127.600	53.360	69.600	55.680
FEB	114.840	394.400	278.400	371.200
MAR	127.600	62.640	52.200	58.000
APR	82.360	60.320	52.200	52.200
MAY	160.000	120.000	110.000	100.000
JUN	220.000	180.000	.	.
JUL	240.000	100.000	.	.
AUG	290.000	84.000	76.000	90.000
SEP	380.000	98.000	100.000	110.000
OCT	300.000	49.000	87.000	62.000
NOV	300.000	73.000	65.000	52.000
DEC	900.000	48.000	36.000	44.000
ARSENIC (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 50.0 (A1)
JAN	.480 <T	.210 <T	.260 <T	.250 <T
FEB	.810 <T	.720 <T	.670 <T	.880 <T
MAR	.840 <T	.590 <T	.300 <T	.380 <T
APR	1.100	.510 <T	.460 <T	.600 <T
MAY	.360 <T	.250 <T	.310 <T	.220 <T
JUN	.680 <T	.280 <T	.	.
JUL	.980 <T	.590 <T	.	.
AUG	1.400	.810 <T	.820 <T	.430 <T
SEP	.850 <T	.320 <T	.380 <T	.460 <T
OCT	.610 <T	.170 <T	.170 <T	.180 <T
NOV	.720 <T	.340 <T	.350 <T	.180 <T
DEC	.830 <T	.250 <T	.300 <T	.180 <T
BARIUM (UG/L)				DET'N LIMIT = 0.020 GUIDELINE = 1000. (A1)
JAN	8.700	7.300	8.300	6.900
FEB	8.300	7.000	7.600	6.800
MAR	7.700	6.900	8.500	7.300

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
			SITE 1	
	RAW	TREATED	STANDING	FREE FLOW
APR	7.400	6.700	7.900	7.000
MAY	8.300	6.900	7.500	6.900
JUN	8.200	6.900	.	.
JUL	9.700	8.200	.	.
AUG	9.800	7.300	6.700	7.400
SEP	11.000	7.500	7.800	7.500
OCT	10.000	7.600	8.500	7.500
NOV	10.000	7.500	8.400	7.400
DEC	9.600	7.500	9.200	7.800
BORON (UG/L)				DET'N LIMIT = 0.200 GUIDELINE = 5000. (A1)
JAN	50.000	6.300 <T	47.000	53.000
FEB	47.000	17.000 <T	48.000	45.000
MAR	110.000	100.000	110.000	100.000
APR	97.000	81.000	96.000	90.000
MAY	15.000 <T	13.000 <T	14.000 <T	13.000 <T
JUN	12.000 <T	12.000 <T	.	.
JUL	8.900 <T	4.400 <T	.	.
AUG	14.000 <T	13.000 <T	14.000 <T	14.000 <T
SEP	10.000 <T	11.000 <T	12.000 <T	11.000 <T
OCT	4.500 <T	4.700 <T	5.900 <T	4.300 <T
NOV	4.700 <T	3.700 <T	12.000 <T	8.100 <T
DEC	4.600 <T	8.500 <T	18.000 <T	10.000 <T
BERYLLIUM (UG/L)				DET'N LIMIT = 0.010 GUIDELINE = N/A
JAN	.050 <T	BDL	.150 <T	.110 <T
FEB	.030 <T	BDL	BDL	BDL
MAR	.090 <T	.170 <T	.220 <T	.220 <T
APR	.060 <T	.020 <T	.110 <T	.110 <T
MAY	.060 <T	.070 <T	.080 <T	.100 <T
JUN	.040 <T	.050 <T	.	.
JUL	.080 <T	BDL	.	.
AUG	.080 <T	.040 <T	.050 <T	BDL
SEP	.060 <T	.030 <T	.020 <T	.030 <T
OCT	.050 <T	BDL	BDL	BDL
NOV	BDL	.020 <T	.020 <T	.020 <T
DEC	BDL	BDL	BDL	BDL
CADMIUM (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 5.000 (A1)
JAN	BDL	BDL	.060 <T	BDL
FEB	BDL	.060 <T	.160 <T	BDL
MAR	BDL	BDL	BDL	BDL
APR	BDL	.090 <T	BDL	BDL
MAY	BDL	BDL	BDL	.080 <T
JUN	BDL	BDL	.	.
JUL	.080 <T	.320 <T	.	.
AUG	BDL	.130 <T	.070 <T	.090 <T

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
SEP	BDL	.100 <T	BDL	.120 <T
OCT	BDL	.290 <T	.210 <T	.270 <T
NOV	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL
COBALT (UG/L)				DET'N LIMIT = 0.020 GUIDELINE = N/A
JAN	.090 <T	.060 <T	.080 <T	.080 <T
FEB	.100 <T	.080 <T	.110 <T	.060 <T
MAR	.090 <T	.030 <T	.100 <T	.050 <T
APR	.170 <T	.140 <T	.190 <T	.160 <T
MAY	.260 <T	.200 <T	.190 <T	.190 <T
JUN	.230 <T	.060 <T	.	.
JUL	.290 <T	.100 <T	.	.
AUG	.260 <T	.140 <T	.140 <T	.100 <T
SEP	.240 <T	.030 <T	BDL	BDL
OCT	.260 <T	.110 <T	.080 <T	.060 <T
NOV	.220 <T	.060 <T	.080 <T	.080 <T
DEC	.280 <T	.090 <T	.160 <T	.030 <T
CHROMIUM (UG/L)				DET'N LIMIT = 0.100 GUIDELINE = 50. (A1)
JAN	1.500	BDL	1.300	1.800
FEB	3.900	.860 <T	3.800	3.700
MAR	4.200	3.800	4.300	4.000
APR	3.900	3.200	3.900	3.700
MAY	4.600	4.200	4.000	4.000
JUN	2.800	2.500	.	.
JUL	1.900	BDL	.	.
AUG	2.500	1.900	2.100	2.000
SEP	2.400	1.800	1.700	1.800
OCT	.640 <T	BDL	.180 <T	BDL
NOV	.490 <T	BDL	1.200	.900 <T
DEC	BDL	.880 <T	1.500 <T	1.300 <T
COPPER (UG/L)				DET'N LIMIT = .100 GUIDELINE = 1000 (A3)
JAN	3.300	1.300	42.000	3.500
FEB	1.600	.590 <T	31.000	2.000
MAR	1.600	.780 <T	21.000	2.100
APR	1.900	.970 <T	28.000	2.500
MAY	1.700	.650 <T	17.000	2.000
JUN	1.800	.730 <T	.	.
JUL	1.800	.700 <T	.	.
AUG	2.400	.960 <T	19.000	4.700
SEP	2.700	.880 <T	21.000	3.700
OCT	2.500	.720 <T	21.000	2.900
NOV	2.500	.970 <T	17.000	2.100
DEC	2.600 <T	.700 <T	22.000	3.500 <T

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DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
IRON (UG/L)				**DET'N LIMIT = 4.000 GUIDELINE = 300. (A3)**
JAN	100.000	40.000 <T	21.000 <T	13.000 <T
FEB	69.000	24.000 <T	BDL	BDL
MAR	71.000	31.000 <T	7.900 <T	9.100 <T
APR	80.000	30.000 <T	BDL	BDL
MAY	190.000	26.000 <T	BDL	BDL
JUN	230.000	18.000 <T	.	.
JUL	280.000	32.000 <T	.	.
AUG	310.000	16.000 <T	BDL	BDL
SEP	410.000	31.000 <T	7.700 <T	BDL
OCT	350.000	19.000 <T	10.000 <T	6.000 <T
NOV	320.000	BDL	11.000 <T	BDL
DEC	360.000	14.000 <T	BDL	BDL
MERCURY (UG/L)				**DET'N LIMIT = 0.010 GUIDELINE = 1.000 (A1)**
JAN	BDL	BDL	.	BDL
FEB	BDL	.020 <T	.	BDL
MAR	BDL	BDL	.	.080
APR	BDL	BDL	.	.020 <T
MAY	BDL	BDL	.	BDL
JUN	.020 <T	.020 <T	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	.	.020 <T
SEP	BDL	BDL	.	.030 <T
OCT	BDL	BDL	.	.040 <T
NOV	.020 <T	.020 <T	.	.050 <T
DEC	.020 <T	.020 <T	.	.040 <T
MANGANESE (UG/L)				**DET'N LIMIT = .050 GUIDELINE = 50.0 (A3)**
JAN	2.800	1.400	.570	1.200
FEB	2.900	.920	.600	.560
MAR	3.300	1.400	.850	.930
APR	4.000	2.200	1.500	1.800
MAY	41.000	8.900	3.600	5.700
JUN	6.800	1.600	.	.
JUL	8.600	2.200	.	.
AUG	19.000	2.700	.920	1.700
SEP	17.000	3.000	1.200	1.800
OCT	12.000	1.900	1.100	1.300
NOV	10.000	1.300	.940	1.100
DEC	12.000	1.500	1.100	1.100
MOLYBDENUM (UG/L)				**DET'N LIMIT = 0.020 GUIDELINE = N/A**
JAN	.180 <T	.180 <T	.110 <T	.120 <T
FEB	.310 <T	.250 <T	.300 <T	.350 <T
MAR	.320 <T	.350 <T	.310 <T	.310 <T
APR	.290 <T	.320 <T	.360 <T	.360 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
MAY	.300 <T	.340 <T	.290 <T	.370 <T
JUN	.160 <T	.270 <T	.	.
JUL	.280 <T	.300 <T	.	.
AUG	.150 <T	.300 <T	.300 <T	.270 <T
SEP	.150 <T	.160 <T	.200 <T	.170 <T
OCT	.120 <T	.110 <T	.120 <T	.110 <T
NOV	.080 <T	.110 <T	.140 <T	.170 <T
DEC	.140 <T	.100 <T	.120 <T	.140 <T
NICKEL (UG/L)				DET'N LIMIT = 0.100 GUIDELINE = 50. (F3)
JAN	BDL	BDL	BDL	BDL
FEB	.190 <T	BDL	1.200 <T	BDL
MAR	.230 <T	BDL	.590 <T	BDL
APR	.510 <T	.290 <T	.950 <T	.210 <T
MAY	BDL	BDL	1.200 <T	.390 <T
JUN	.400 <T	BDL	.	.
JUL	.390 <T	BDL	.	.
AUG	.540 <T	.190 <T	.980 <T	.620 <T
SEP	.390 <T	BDL	.420 <T	BDL
OCT	.450 <T	BDL	.450 <T	BDL
NOV	.310 <T	BDL	2.200	.630 <T
DEC	.530 <T	BDL	5.400	BDL
LEAD (UG/L)				DET'N LIMIT = 0.050 GUIDELINE = 50. (A1)
JAN	.130 <T	.700	.800	.160 <T
FEB	.170 <T	.050 <T	6.400	.060 <T
MAR	.040 <T	BDL	1.600	BDL
APR	.230	.110 <T	1.100	.070 <T
MAY	.410	.070 <T	1.000	.180 <T
JUN	.410	BDL	.	.
JUL	.390	.630	.	.
AUG	.440	.110 <T	.880	.460
SEP	.540	.300	.890	.330
OCT	.280	.160 <T	.650	.120 <T
NOV	.320	.090 <T	.570	.050 <T
DEC	.230 <T	BDL	.520	.090 <T
ANTIMONY (UG/L)				DET'N LIMIT = .050 GUIDELINE = 146. (D4)
JAN	.360	.480	.500	.360
FEB	.390	.560	.550	.550
MAR	.290	.460	.450	.340
APR	.480	.430	.530	.460
MAY	.740	.830	.790	.800
JUN	.610	.640	.	.
JUL	.460	.560	.	.
AUG	.620	.570	.670	.730
SEP	.350	.520	.590	.510

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
OCT	.320	.380	.340	.280
NOV	.220	.390	.350	.440
DEC	.200 <T	.320 <T	.510	.220 <T
SELENIUM (UG/L)				DET'N LIMIT = 0.200 GUIDELINE = 10. (A1)
JAN	.790 <T	.610 <T	BDL	.350 <T
FEB	2.800 <T	.720 <T	1.600 <T	BDL
MAR	.330 <T	BDL	.380 <T	BDL
APR	.720 <T	BDL	BDL	BDL
MAY	BDL	.250 <T	BDL	BDL
JUN	BDL	BDL	.	.
JUL	1.300 <T	BDL	.	.
AUG	BDL	BDL	BDL	1.400 <T
SEP	BDL	BDL	BDL	BDL
OCT	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL
DEC	BDL	BDL	1.700 <T	1.200 <T
STRONTIUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = N/A
JAN	30.000	35.000	37.000	35.000
FEB	30.000	37.000	38.000	36.000
MAR	29.000	34.000	35.000	32.000
APR	30.000	35.000	36.000	35.000
MAY	31.000	35.000	36.000	36.000
JUN	29.000	36.000	.	.
JUL	29.000	33.000	.	.
AUG	28.000	31.000	31.000	33.000
SEP	30.000	33.000	34.000	34.000
OCT	27.000	32.000	34.000	32.000
NOV	27.000	33.000	34.000	32.000
DEC	28.000	34.000	35.000	35.000
TITANIUM (UG/L)				DET'N LIMIT = .050 GUIDELINE = N/A
JAN	4.500	6.400	6.600	8.500
FEB	4.200	2.600	2.800	2.600
MAR	6.200	6.000	5.900	5.900
APR	4.400	2.800	3.300	3.300
MAY	10.000	5.000	5.300	5.000
JUN	12.000	4.600	.	.
JUL	11.000	5.600	.	.
AUG	17.000	14.000	14.000	17.000
SEP	17.000	13.000	12.000	15.000
OCT	11.000	10.000	10.000	11.000
NOV	10.000	1.900 <T	3.700	2.400
DEC	12.000	2.200 <T	3.500 <T	2.100 <T
THALLIUM (UG/L)				DET'N LIMIT = .010 GUIDELINE = 13. (D4)

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
JAN	BDL	BDL	BDL	.030 <T
FEB	BDL	BDL	BDL	BDL
MAR	BDL	BDL	BDL	BDL
APR	.080 <T	.020 <T	.050 <T	.020 <T
MAY	BDL	BDL	.020 <T	.030 <T
JUN	.020 <T	BDL	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	.020 <T	BDL
SEP	BDL	BDL	.020 <T	.020 <T
OCT	BDL	BDL	.020 <T	BDL
NOV	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL
URANIUM (UG/L)			DET'N LIMIT = .020	GUIDELINE = 100.(B1)
JAN	.070 <T	BDL	BDL	BDL
FEB	.120 <T	.150 <T	.190 <T	.130 <T
MAR	BDL	BDL	BDL	BDL
APR	.140 <T	.050 <T	.030 <T	BDL
MAY	.070 <T	.070 <T	.080 <T	.090 <T
JUN	.120 <T	.030 <T	.	.
JUL	.160 <T	.030 <T	.	.
AUG	.150 <T	.080 <T	.100 <T	.080 <T
SEP	.100 <T	BDL	.040 <T	.040 <T
OCT	.090 <T	.030 <T	.030 <T	.030 <T
NOV	.070 <T	.030 <T	.060 <T	.030 <T
DEC	.080 <T	BDL	BDL	BDL
VANADIUM (UG/L)			DET'N LIMIT = .050	GUIDELINE = N/A
JAN	.470 <T	.150 <T	.170 <T	.170 <T
FEB	.500 <T	.300 <T	.350 <T	.320 <T
MAR	.490 <T	.260 <T	.280 <T	.300 <T
APR	.550	.250 <T	.280 <T	.260 <T
MAY	.660	.330 <T	.410 <T	.330 <T
JUN	.700	.360 <T	.	.
JUL	.770	.310 <T	.	.
AUG	1.100	.470 <T	.470 <T	.500 <T
SEP	1.300	.460 <T	.480 <T	.480 <T
OCT	1.200	.340 <T	.380 <T	.320 <T
NOV	1.000	.290 <T	.380 <T	.310 <T
DEC	1.300	.270 <T	.280 <T	.290 <T
ZINC (UG/L)			DET'N LIMIT = .001	GUIDELINE = 5000. (A3)
JAN	.490 <T	120.000	120.000	150.000
FEB	BDL	.270 <T	12.000	1.400
MAR	1.200	1.800	15.000	3.700
APR	1.600	2.200	15.000	3.700
MAY	.960 <T	1.900	7.900	3.100

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
JUN	1.800	2.200	.	.
JUL	1.800	63.000	.	.
AUG	2.300	100.000	85.000	120.000
SEP	1.800	150.000	140.000	190.000
OCT	3.000	140.000	140.000	160.000
NOV	1.400	1.700	36.000	11.000
DEC	2.100	1.600 <T	38.000	13.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
PESTICIDES & PCB					
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)
JAN	BDL	BDL	.	BDL	
FEB	1.000 <T	1.000 <T	.	2.000 <T	
MAR	IPE	IPE	.	IPE	
APR	BDL	BDL	.	BDL	
MAY	BDL	BDL	.	BDL	
JUN	1.000 <T	BDL	.	.	
JUL	BDL	2.000 <T	.	.	
AUG	BDL	BDL	.	BDL	
SEP	BDL	BDL	.	BDL	
OCT	BDL	BDL	.	BDL	
NOV	1.000 <T	1.000 <T	.	1.000 <T	
DEC	BDL	2.000 <T	.	2.000 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1		
			STANDING	FREE FLOW	
PHENOLICS (UG/L PHENOLICS)			DET'N LIMIT = 0.2		GUIDELINE = 2.00 (A3)
JAN	2.600	1.200	.	.	
FEB	2.000	2.000	.	.	
MAR	2.000	2.000	.	.	
APR	6.600	4.000	.	.	
MAY	1.600	1.400	.	.	
JUN	1.200	.600 <T	.	.	
JUL	1.200	.600 <T	.	.	
AUG	1.000	!IS	.	.	
SEP	1.800	1.800	.	.	
OCT	4.800	14.200	.	.	
NOV	2.000	1.200	.	.	
DEC	!NR	!NR	.	.	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
VOLATILES				
TOLUENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 24.0 (B4)
JAN	BDL	BDL	.	.050 <T
FEB	.050 <T	.050 <T	.	BDL
MAR	.050 <T	.050 <T	.	.050 <T
APR	BDL	BDL	.	BDL
MAY	.050 <T	.100 <T	.	.100 <T
JUN	BDL	.100 <T	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	.	.100 <T
SEP	BDL	.050 <T	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	IU
ETHYLBENZENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 2.4 (B4)
JAN	BDL	BDL	.	BDL
FEB	.100 <T	.050 <T	.	.050 <T
MAR	.100 <T	BDL	.	BDL
APR	BDL	BDL	.	BDL
MAY	BDL	BDL	.	.050 <T
JUN	BDL	BDL	.	.
JUL	BDL	.050 <T	.	.
AUG	BDL	.050 <T	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	.050 <T	.	BDL
DEC	BDL	BDL	.	IU
O-XYLENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 300 (B4)
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	.050 <T	.	BDL
APR	BDL	BDL	.	BDL
MAY	BDL	BDL	.	.050 <T
JUN	BDL	BDL	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	IU
STYRENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 46.5 (D2)
JAN	.150 <T	.100 <T	.	BDL
FEB	.400 <T	.250 <T	.	BDL
MAR	.300 <T	.200 <T	.	.100 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	BDL	.200 <T	.	.100 <T
MAY	.050 <T	.150 <T	.	.200 <T
JUN	BDL	.100 <T	.	.
JUL	BDL	.200 <T	.	.
AUG	BDL	.150 <T	.	.050 <T
SEP	BDL	.100 <T	.	BDL
OCT	BDL	.100 <T	.	BDL
NOV	BDL	.150 <T	.	BDL
DEC	BDL	BDL	.	IU
CHLOROFORM (UG/L)				DET'N LIMIT = .100 GUIDELINE = 350 (A1+)
JAN	BDL	47.300	.	51.000
FEB	.100 <T	50.600	.	53.100
MAR	.200 <T	47.000	.	44.500
APR	.200 <T	59.900	.	65.000
MAY	BDL	57.900	.	65.300
JUN	BDL	78.900	.	.
JUL	.500 <T	82.800	.	.
AUG	.100 <T	68.500	.	82.200
SEP	BDL	63.500	.	79.600
OCT	BDL	60.000	.	69.300
NOV	BDL	50.600	.	50.400
DEC	BDL	54.500	.	IU
111, TRICHLOROETHANE (UG/L)				DET'N LIMIT = .020 GUIDELINE = 200 (D1)
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	.020 <T	BDL	.	BDL
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	.	.040 <T
SEP	.020 <T	BDL	.	BDL
OCT	.040 <T	.020 <T	.	BDL
NOV	.060 <T	BDL	.	BDL
DEC	BDL	BDL	.	IU
DICHLOROBROMOMETHANE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 350 (A1+)
JAN	BDL	2.700	.	3.000
FEB	BDL	2.650	.	2.500
MAR	.100 <T	2.350	.	2.250
APR	BDL	2.900	.	2.800
MAY	BDL	2.200	.	2.300 APS
JUN	BDL	2.850	.	.
JUL	BDL	2.800	.	.
AUG	BDL	2.900	.	2.800

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
SEP	BDL	2.400	.	2.750
OCT	BDL	2.300	.	2.550
NOV	BDL	2.300	.	2.250
DEC	BDL	2.550	.	IU
CHLORODIBROMOMETHANE (UG/L)				DET'N LIMIT = .100 GUIDELINE = 350 (A1+)
JAN	BDL	.100 <T	.	.100 <T
FEB	BDL	.100 <T	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	.100 <T	.	BDL
MAY	BDL	.100 <T	.	BDL
JUN	BDL	BDL	.	.
JUL	BDL	.200 <T	.	.
AUG	BDL	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	IU
T-CHLOROETHYLENE (UG/L)				DET'N LIMIT = .050 GUIDELINE = 10.0 (C2)
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
MAY	BDL	.050 <T	.	BDL
JUN	BDL	BDL	.	.
JUL	BDL	BDL	.	.
AUG	BDL	BDL	.	.050 <T
SEP	BDL	.050 <T	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	IU
TOTL TRIHALOMETHANES (UG/L)				DET'N LIMIT = .500 GUIDELINE = 350 (A1)
JAN	BDL	50.100	.	54.100
FEB	BDL	53.350	.	55.600
MAR	BDL	49.350	.	46.750
APR	BDL	62.900	.	67.800
MAY	BDL	60.200	.	67.600
JUN	BDL	81.750	.	.
JUL	BDL	85.800	.	.
AUG	BDL	71.400	.	85.000
SEP	BDL	65.900	.	82.350
OCT	BDL	62.300	.	71.850
NOV	BDL	52.900	.	52.650
DEC	BDL	57.100	.	IU

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM DRYDEN WTP 1989

WATER TREATMENT PLANT		DISTRIBUTION SYSTEM	
RAW	TREATED	SITE 1	
		STANDING	FREE FLOW

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BACTERIOLOGICAL			
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1)
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0	500/ML(A1)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000. (B4)
PENTACHLOROPHENOL	NG/L	50.	30000. (B4)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5(A4)
FIELD TEMPERATURE	°C	N/A	<15 °C(A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500(A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20(A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100(A4)
MAGNESIUM	MG/L	.05	30. (F2)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5(A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40(F2)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)
METALS			
ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	10. (F3)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)
PHENOLICS			
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
PESTICIDES & PCB			
ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE(LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	900000. (B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE(THIODAN SULPHATE)	NG/L	4.0	N/A
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO(A)ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E)PYRENE	NG/L	50.0	N/A	
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A	
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	200000.	(B4)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	120000.	(B1)
PICLORAM	NG/L	100.	190000.	(B3)
SILVEX (2,4,5-TP)	NG/L	50.	10000.	(A1)
DIAZINON	NG/L	20.	20000.	(B1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION	NG/L	20.	35000.	(G)
GUTHION(AZINPHOSMETHYL)	NG/L	N/A	20000.	(B1)
MALATHION	NG/L	20.	190000.	(B1)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.	7000.	(A1)
METHYLTRITHION	NG/L	20.	N/A	
PARATHION	NG/L	20.	50000.	(B1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
PHORATE (THIMET)	NG/L	20.	2000. (B3)
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
AMINOCARB	NG/L	N/A	N/A
BENONYL	NG/L	N/A	N/A
BUX (METALKAMATE)	NG/L	2000.	N/A
CARBOFURAN	NG/L	2000.	90000. (B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)
DIALLATE	NG/L	2000.	30000. (H)
EPTAM	NG/L	2000.	N/A
IPC	NG/L	2000.	N/A
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)
SEVIN (CARBARYL)	NG/L	200.	90000. (B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)
VOLATILES			
BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHLYENE DIBROMIDE	UG/L	.05	.05 G)
METHYLENE CHLORIDE	UG/L	.500	50. (B1)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	70. (D5)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (B1)
1,2-DICHLOROPROPANE	UG/L	.050	6.0 (D5)
TRICHLOROETHYLENE	UG/L	.100	50. (B1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60(D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17(D4)
CHLOROBENZENE	UG/L	.100	60. (D5)
1,4-DICHLOROBENZENE	UG/L	.100	1.0 (B4)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	3.0 (B4)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	140. (D5)